

Ravinder Varkali

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SENIOR STAFF SOFTWARE ENGINEER | DISTRIBUTED SYSTEMS | CLOUD PLATFORMS | PLATFORM ARCHITECTURE

Senior Staff Software Engineer specializing in large-scale distributed systems, platform engineering, and cloud-native architectures. Proven track record of architecting highly available microservices, event-driven and streaming systems, and distributed workflows using Go, Java, Python, Kubernetes, PostgreSQL, Redis, Kafka, and AWS Kinesis across GCP and AWS. Technical leader with demonstrated success driving platform architecture, scalability, reliability, and operational efficiency while delivering complex systems across engineering organizations.

CORE COMPETENCIES

Architecture: Distributed systems, Scalable Microservices, gRPC, REST APIs, OpenAPI, Event-Driven Architecture, Serverless Computing, High Availability, Scalability, Resilience, Distributed Systems Design

Cloud & Platform: Google Cloud Platform (GCP), Amazon Web Services (AWS), Microsoft Azure, Kubernetes, Docker, Terraform, Infrastructure as Code (IaC), GitLab CI/CD, GitHub Actions, Jenkins

Observability & Reliability: OpenTelemetry, distributed tracing, metrics, logging, alerting, incident response, root-cause analysis, Elasticsearch, Grafana

Cloud Security & Zero Trust: Zero Trust principles, RBAC, Least Privilege, Authentication & Authorization, Secure Service-to-Service Communication

Technical Leadership: Platform architecture, technical strategy, system design, architecture reviews, engineering standards, cross-functional leadership, mentoring

Languages & Frameworks: Go, Java, Python, JavaScript, TypeScript, Spring Boot

Data & Messaging: PostgreSQL, Amazon Aurora, Amazon RDS, DynamoDB, Redis, Apache Kafka, Amazon Kinesis

Applied AI: Generative AI and Large Language Models (LLMs), AI-Assisted Engineering

PROFESSIONAL EXPERIENCE

ZSCALER, INC. — San Jose, CA

Senior Staff Software Engineer | Mar 2024 – Present

- Architected and led the implementation of **ZObserver**, a distributed observability and troubleshooting platform for services running across Zscaler Cloud, reducing troubleshooting and operational costs by 30%.
- Designed distributed orchestration and troubleshooting workflows across a large-scale cloud environment, addressing concurrency, fault isolation, rate limiting, and service reliability.
- Implemented role-based access control and provisioned secure, scalable Google Cloud infrastructure using Terraform.
- Led integrations across global engineering teams, resolving platform dependencies and establishing reusable service onboarding and troubleshooting workflows.
- Defined platform architecture, service contracts, engineering standards, and reusable APIs supporting adoption across multiple engineering organizations.

VMWARE, INC. — Palo Alto, CA

Staff Software Engineer | Jul 2020 – Nov 2023

- Architected and developed distributed backend services for VMware Cloud Partner Navigator, including audit logging, partner-order telemetry, and cloud service integrations supporting enterprise-scale SaaS operations and partner lifecycle management.
- Improved customer-support portal performance by 40% through parallel and asynchronous processing.
- Integrated Dell/VMware Cloud service workflows, improving order and subscription visibility for partners.

NETSKOPE, INC. — Santa Clara, CA**Staff Software Engineer** | Jan 2020 – Jul 2020

- Built internal engineering tools and infrastructure for development, debugging, scaling, and monitoring of the Netskope SaaS platform.
- Integrated proactive alerting and observability using Prism, SignalFx, and Grafana.

ASURION, LLC. — San Mateo, CA**Principal Software Engineer** | Mar 2015 – Dec 2019

- Architected and developed multi-tenant, highly available distributed microservices powering customer-facing mobile backup and restore capabilities using asynchronous and event-driven architectures.
- Designed distributed workflows for large-scale backup, restore, and data-processing operations, addressing asynchronous execution, partial failures, retries, and long-running operations.
- Built event-driven streaming pipelines using AWS Kinesis and leveraged Redis for distributed caching and high-throughput data access across backend services.
- Deployed containerized microservices on Kubernetes, enabling horizontal scaling, service resiliency, and independent deployment of platform components.
- Designed scalable REST APIs and backend services for search, albums, tags, authentication, and authorization across the multi-tenant platform.

WIPRO TECHNOLOGIES — Cupertino, CA**Technical Lead** | Dec 2005 – Feb 2015Selected clients: **Apple Inc., UBS, Mastercard, BNY Mellon, and Verizon**

- Led delivery of enterprise analytics, reporting, metadata search, and Java/J2EE applications for global financial-services and technology clients.
- Designed a data-browser reporting platform for Apple's Global Business Intelligence organization and implemented metadata and search APIs backed by SAP HANA.

IBM SOFTWARE LABS. — Bangalore, India**Software Engineer** | Dec 2003 – Dec 2005

- Developed enterprise portlets and SAP and email integrations for IBM WebSphere Portal Server.
- Delivered new capabilities for IBM WebSphere Application Server.

PATENT APPLICATION

Co-inventor, "System and Method for Cloud Observability Framework for Troubleshooting and Monitoring" — patent application filed in 2025 for distributed diagnostics and cloud troubleshooting workflows.

EDUCATION**M.Tech. in Computer Science and Engineering** — Indian Institute of Technology Madras**B.Tech. in Civil Engineering** — Osmania University, Hyderabad**CERTIFICATIONS**

- AWS Certified Solutions Architect – Associate
- Zscaler Zero Trust Cyber Associate (ZTCA)
- Deep Learning Specialization — DeepLearning.AI (Coursera)

RECOGNITION

- GATE — Joint All India Rank 2 (highest rank awarded)
- Two-time Apple Best Solution Award recipient
- IBM Bravo Award recipient